

DATA STORING PORTION

P 6	≦ □	MC VI	SE DE	-
CONTROL PORTION POST-UPDATING FILE RESTORING PORTION	DIFFERENTIAL DATA PRODUCING PORTION WIRELESS COMMUNICATION PORTION	WIRELESS COMMUNICATION NETWORK MOBILE TERMINAL DEVICE	DIFFERENTIAL DATA PRODUCING DEVICE SERVER	

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* 6

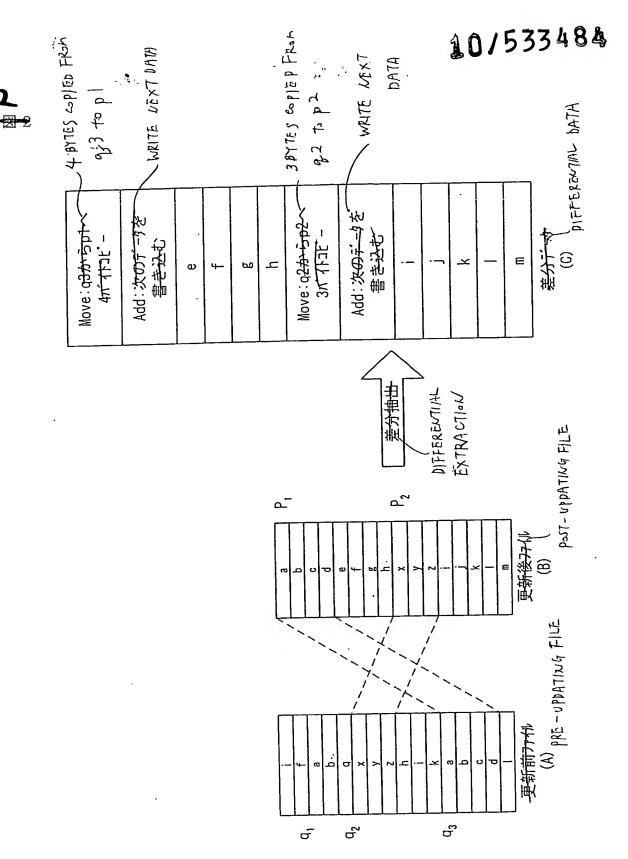
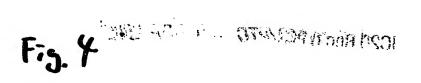
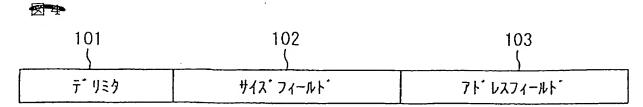


Fig. 3 P-57- UPOATING 图 3 مـ Ъ2 更新後升作 ල Θ 世帯電子イル PRE-CPDATIVG 8 ည d_2 5 (C) ✐ (A) Add:次のデータを一書き込む ②Add:次のデータを 書き込む ③Move:q2からp2~ 3バイトコピ− ①Move:q3からp1~ 4バイトンピー 差分デー 3 ᅩ ⋿ ക рū 3 BYTES COPIED FROM Q2 TO P2, 4 BYTES COPIED FROM Q3 TO P1' DIFFERENTIAL DATA WRITE NEXT DATA WRITE NEXT DATA 3/21





101 DELIMITER

102 SIZE FIELD

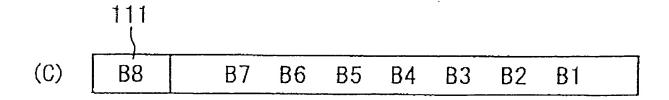
103 ADDRESS FIELD

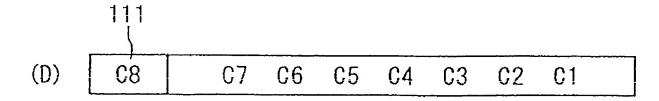
Fig. 5

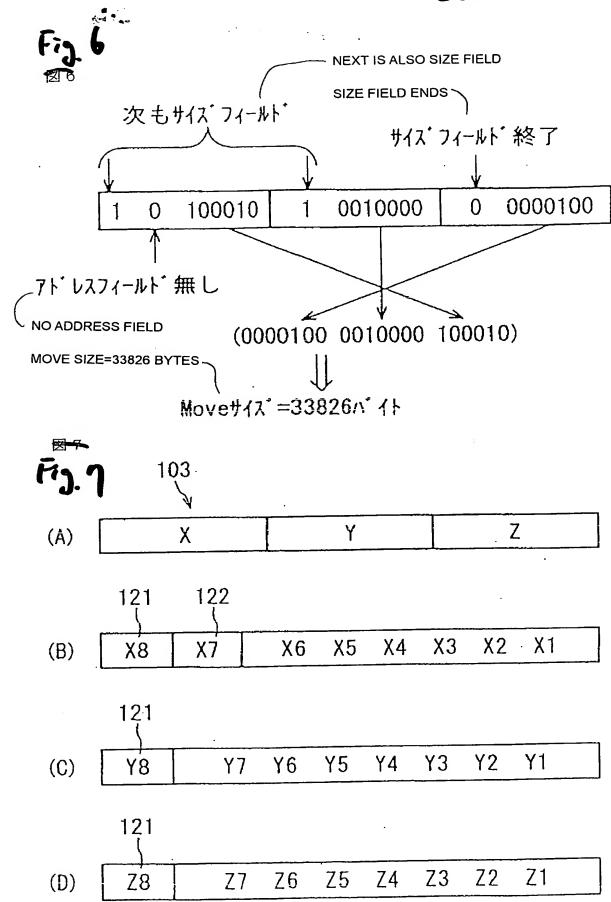
図 5

	¥		
(A)	Α	В	C

	111	112							
(B)	A8	A7	A 6	A5	A4	A3	A2	A1	







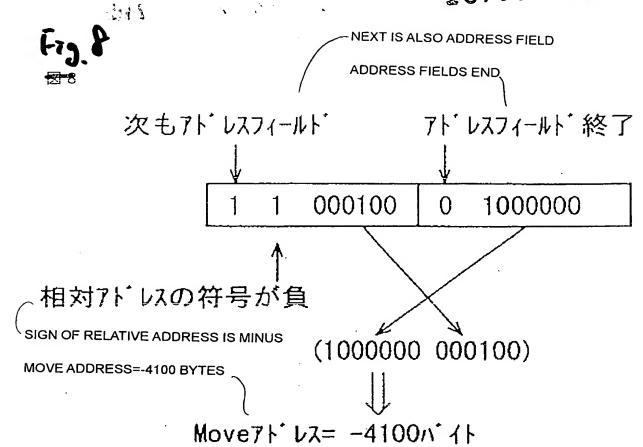
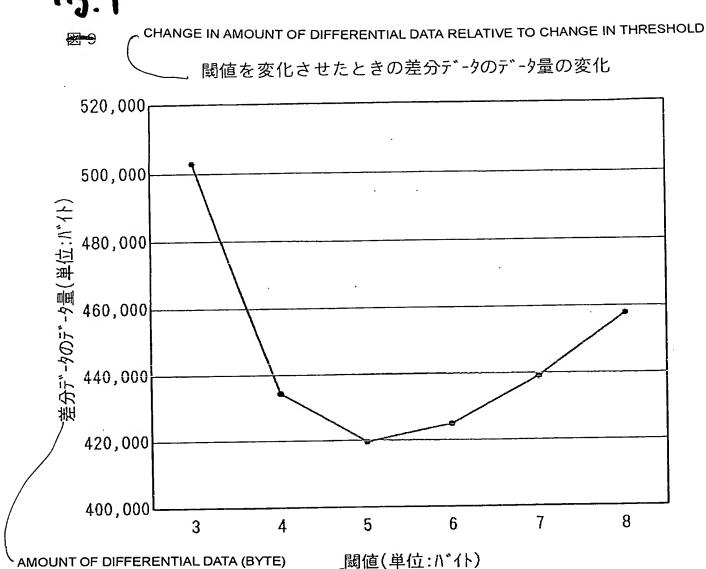
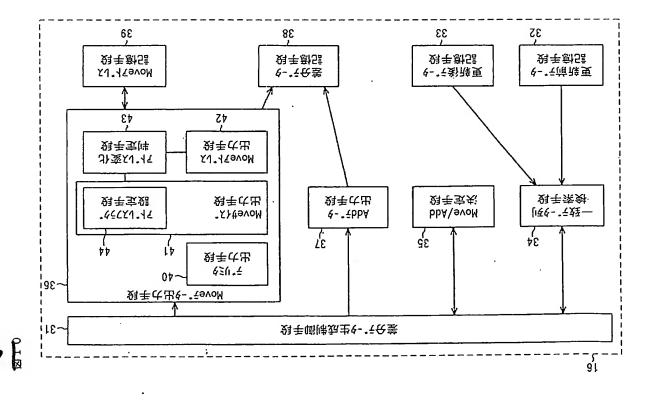


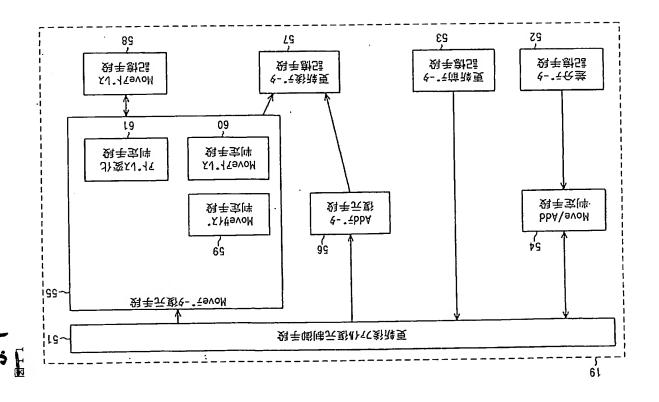
Fig. 9

THRESHOLD (BYTE)



DIFFERENTIAL DATA PRODUCING CONTROL UNIT
PRE-UPDATING DATA STORING UNIT
POST-UPDATING DATA STORING UNIT
MATCHING DATA STRING SEARCH UNIT
MOVE/ADD DETERMINING UNIT
MOVE DATA OUTPUT UNIT
DIFFERENTIAL DATA STORING UNIT
MOVE ADDRESS STORING UNIT
MOVE SIZE OUTPUT UNIT
MOVE SIZE OUTPUT UNIT
MOVE SIZE OUTPUT UNIT
ADDRESS CHANGE DETERMINING UNIT
ADDRESS CHANGE DETERMINING UNIT
ADDRESS FLAG SETTING UNIT





. FIG 12

START

S101 SEARCH FOR MATCHING DATA STRING IN PRE-UPDATING FILE

S102 ANY MATCHING DATA STRING?

MATCHING DATA LENGTH 2 THRESHOLD

S104 OUTPUT AS ADD

05 OUTPUT DELIMITER

S106 MOVE ADDRESS = PREVIOUS ONE?

S107 ADDRESS FLAG → 0

S108 OUTPUT MOVE SIZE

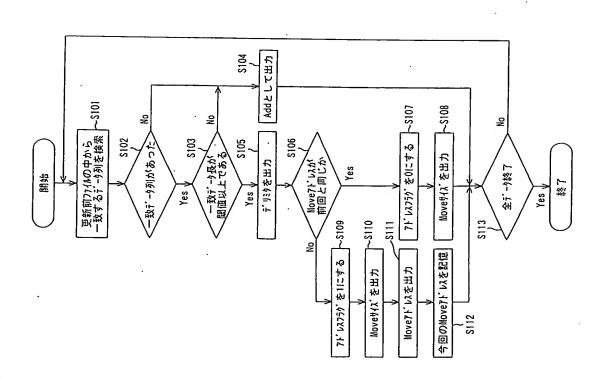
S109 ADDRESS FLAG → 1

S110 OUTPUT MOVE SIZE
S111 OUTPUT MOVE ADDRESS

S112 STORE PRESENT MOVE ADDRESS

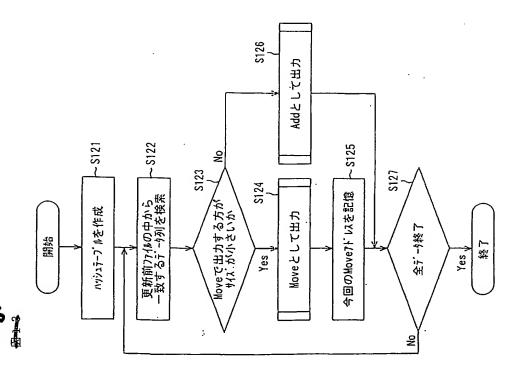
ALL DATA PROCESSED?

CNE



S121 PRODUCE HASH TABLE
S122 SEARCH FOR MATCHING DATA STRING IN PRE-UPDATING FILE
S123 SMALLER SIZE IF OUTPUT AS MOVE?
S124 OUTPUT AS MOVE
S125 STORE PRESENT MOVE ADDRESS
S126 OUTPUT AS ADD
S127 ALL DATA PROCESSED?
FIND

FIG 13 START



and the same and

FIG 14

OUTPUT AS MOVE

S132

OUTPUT DELIMITER 0x0F

S131

OUTPUT 1ST BYTE OF MOVE SIZE

NEXT BYTE TO BE USED FOR EXPRESSING MOVE SIZE? S133

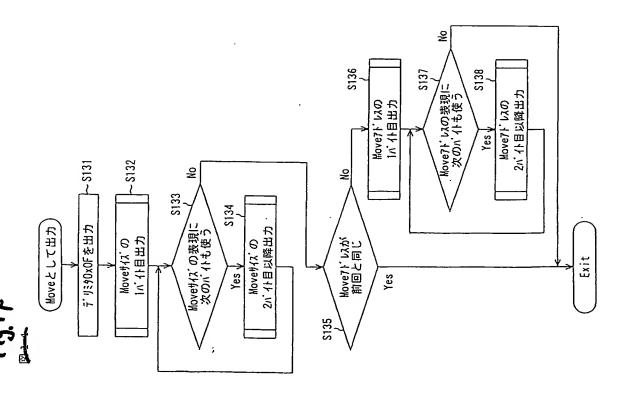
OUTPUT 2ND BYTE AND ON OF MOVE SIZE S134

MOVE ADDRESS = PREVIOUS ONE? S135

OUTPUT 1ST BYTE OF MOVE ADDRESS

NEXT BYTE TO BE USED FOR EXPRESSING MOVE ADDRESS?

OUTPUT 2ND BYTE AND ON OF MOVE ADDRESS S138

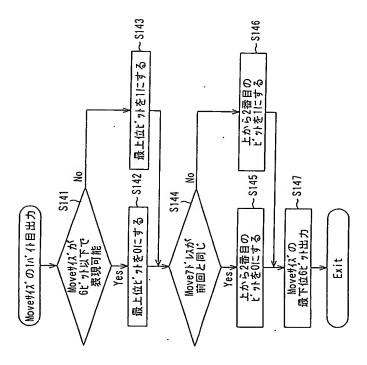


OUTPUT 1ST BYTE OF MOVE SIZE

MOVE SIZE CAN BE EXPRESSED BY 6 BITS OR LESS?

MSB → 0 MSB → 1 MOVE ADDRESS = PREVIOUS ONE?

2ND MSB → 0 2ND MSB → 1 OUTPUT 6 LSB OF MOVE SIZE S147



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FIG 16

OUTPUT 2ND BYTE AND ON OF MOVE SIZE

BITS YET TO BE OUTPUT OF MOVE SIZE 5 7 BITS? S151

MSB → 0 S152

MSB → 1 S153

OUTPUT 7 LSB AMONG BITS YET TO BE OUTPUT S154

1 X 1 " . .

FIG 17

OUTPUT 1ST BYTE OF MOVE ADDRESS

ABSOLUTE VALUE OF ADDRESS CAN BE EXPRESSED BY 6 BITS OR LESS?

S161

MSB → 0 MSB → 1 S162

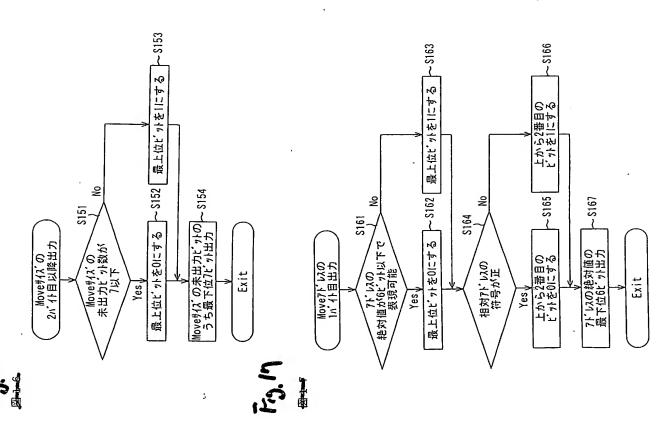
S163

SIGN OF RELATIVE ADDRESS = +? S164

2ND MSB → 1

2ND MSB → 0

OUTPUT 6 LSB OF ABSOLUTE VALUE OF ADDRESS S167



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FIG 18

OUTPUT 2ND BYTE AND ON OF MOVE ADDRESS

171 BITS YET TO BE OUTPUT OF ABSOLUTE VALUE OF ADDRESS 5 7 BITS?

172 MSB → 0

11.3 M3B 1

OUTPUT 7 LSB AMONG BITS YET TO BE OUTPUT OF MOVE ADDRESS

OUTPUTASADD

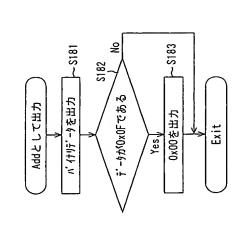
FIG. 19

S181 OUTPUT BINARY DATA

DATA = 0x0F?

S182

S183 OUTPUT 0x00



F3.19

75

and the state of t

START

S201 READ 1 BYTE AT BEGINNING

S202 READ BYTE = 0x0F7

S203 OUTPUT BYTE AS POST-UPDATING FILE DATA

S204 READ NEXT 1 BYTE

S205 READ BYTE = 0x007

S206 OUTPUT 0x0F AS POST-UPDATING FILE DATA

S206 OUTPUT 0x0F AS POST-UPDATING FILE DATA

S208 DIFFERENTIAL DATA READ TO END?

S209 READ NEXT 1 BYTE

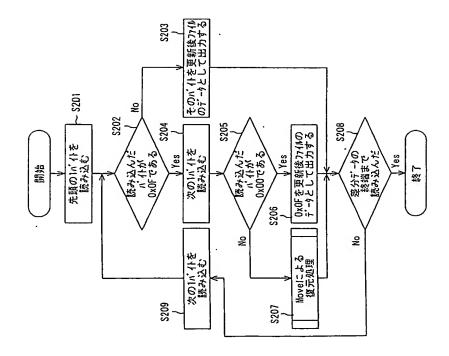


FIG. 21

RESTORING PROCESSING BY MOVE

211 2ND MSB = 0?

DETERMINE MOVE ADDRESS AS SAME VALUE AS PREVIOUS ONE

MOVE SIZE DETERMINING PROCESSING

MOVE ADDRESS DETERMINED?

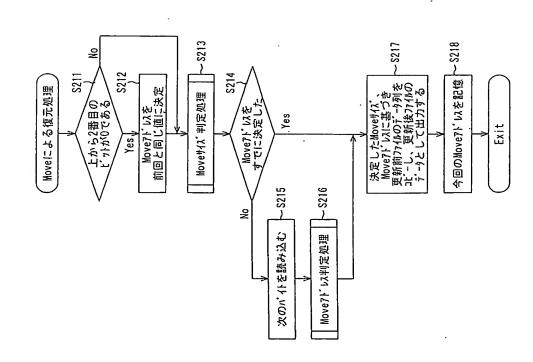
S READ NEXT BYTE

216 MOVE ADDRESS DETERMINING PROCESSING

S217 COPY DATA STRING IN PRE-UPDATING FILE BASED ON DETERMINED MOVE

SIZE AND MOVE ADDRESS AND OUTPUT AS POST-UPDATING FILE DATA

S218 STORE PRESENT MOVE ADDRESS



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MOVE SIZE DETERMINING PROCESSING

FIG 22

SET 6 LOW-ORDER BITS AS 6 LOW-ORDER BITS OF MOVE SIZE

S222 MSB = 17

1 - COM 75

S223 READ NEXT BYTE

S224 ADD 7 LOW-ORDER BITS TO 7 HIGH-ORDER BITS OF MOVE SIZE

MOVE SIZE DETERMINED

\$225

MOVE ADDRESS DETERMINING PROCESSING

S231 2ND MSB = 0?

S232 SIGN OF MOVE ADDRESS → +

S233 SIGN OF MOVE ADDRESS →
S234 SET 6 LOW-ORDER BITS AS 6 LOW-ORDER BITS OF ABSOLUTE VALUE OF

MOVE ADDRESS

S235 MSB = 1?

S236 READ NEXT BYTE

S237 ADD 7 LOW-ORDER BITS TO 7 HIGH-ORDER BITS OF ABSOLUTE VALUE OF

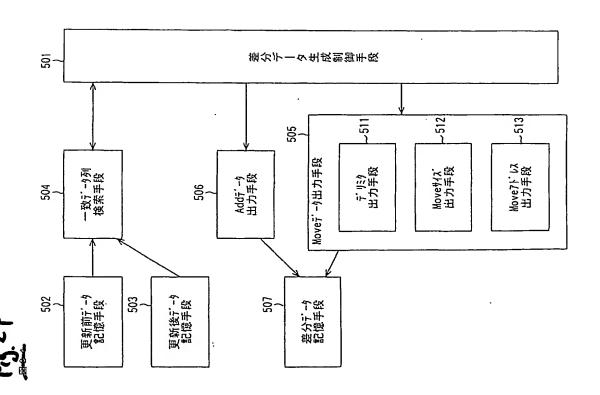
MOVE ADDRESS

S238 MOVE ADDRESS DETERMINED

10

 ~ 5232 - S236 ~ S238 ~ S234 ~\$237 下位6ビ小を Move7ドレスの絶対値の 下位6ビ小とする 下位7ピットを Move7ピレスの絶対値の 上位7ピットに追加 最上位に かが1である 次のバイを読み込む Move7ドレス判定処理 Move7ドレスの 符号を正にする 上から2番目の ビットが0である Move7+ レスが決定 Yes Exit ટ \$233 Move7ドレスの 符号を負にする

S501 DIFFERENTIAL DATA PRODUCING CONTROL UNIT
S502 PRE-UPDATING DATA STORING UNIT
S503 POST-UPDATING DATA STORING UNIT
S504 MATCHING DATA STRING SEARCH UNIT
S505 MOVE DATA OUTPUT UNIT
S506 ADD DATA OUTPUT UNIT
S507 DIFFERENTIAL DATA STORING UNIT
S511 DELIMITER OUTPUT UNIT
S512 MOVE SIZE OUTPUT UNIT



S501 SEARCH FOR MATCHING DATA STRING IN PRE-UPDATING FILE
S502 ANY MATCHING DATA STRING?
S503 OUTPUT MOVE SIZE
S504 OUTPUT MOVE ADDRESS
S506 OUTPUT AS ADD
S506 ALL DATA PROCESSED?
END

FIG 25 START

